

WHAT IS CLAIMED IS:

1. An image sensing apparatus comprising:

(A) an image sensing element that converts an optical image of an object passed through an optical transparent member to an image signal; and

(B) an image processing device that performs moving image signal processing for processing the image signal converted by said image sensing element as a moving image signal and still image signal processing for processing the image signal as a still image signal,

wherein, when said still image signal processing is to be executed, said signal processing device performs predetermined control in response to movement of said optical transparent member to a predetermined position, said predetermined control being not performed when said moving image signal processing is to be executed.

2. The image sensing apparatus according to claim 1, wherein said signal processing device does not perform said predetermined control when the optical transparent member does not move to the predetermined position.

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3. The image sensing apparatus according to claim 1,
wherein said signal processing device limits said still
image signal processing as said predetermined control.
4. The image sensing apparatus according to claim 1,
5 wherein said signal processing device inhibits said
still image signal processing as said predetermined
control.
5. The image sensing apparatus according to claim 1,
wherein said still image signal processing includes a
10 recording process of a still image signal on an image
recording medium.
6. The image sensing apparatus according to claim 5,
wherein said signal processing device limits said
recording process of the still image signal as said
15 predetermined control.
7. The image sensing apparatus according to claim 5,
wherein said signal processing device inhibits said
recording process of the still image signal as said
predetermined control.
- 20 8. The image sensing apparatus according to claim 5,
wherein said signal processing device changes a
compression ratio of the still image signal to be
recorded on the image recording medium as said
predetermined control.
- 25 9. The image sensing apparatus according to claim 5,
wherein said signal processing device increases a

compression ratio of the still image signal to be recorded on the image recording medium as said predetermined control.

10. The image sensing apparatus according to claim 1,
5 wherein said signal processing device changes a utilization area of the image signal with respect to an image sensing area of said image sensing element as said predetermined control.

11. The image sensing apparatus according to claim 1,
10 wherein said signal processing device turns off the image sensing apparatus as said predetermined control.

12. The image sensing apparatus according to claim 1, wherein said signal processing device produces an alert as said predetermined control.

13. The image sensing apparatus according to claim 1
15 further comprising a notification device which notifies a state of said signal processing device upon performing said predetermined control.

14. The image sensing apparatus according to claim 1,
20 wherein a detector that detects a moving position of said optical transparent member.

15. The image sensing apparatus according to claim 1,
wherein said image sensing device includes said optical
25 transparent member.

16. The image sensing apparatus according to claim 1,
wherein said optical transparent member comprises a
lens.
17. The image sensing apparatus according to claim 1,
5 wherein said optical transparent member comprises an
optical filter.
18. The image sensing apparatus according to claim 1,
wherein a predetermined focal length state can be
determined based on the movement of said optical
10 transparent member to said predetermined position.
19. The image sensing apparatus according to claim 1,
wherein a predetermined focus position state can be
15 determined based on the movement of said optical
transparent member to said predetermined position.
20. An image sensing apparatus comprising:
- 20 (A) an image sensing element that converts an
optical image of an object passed through an optical
transparent member to an image signal; and
- (B) an image processing device that performs
25 first signal processing for obtaining an image signal
of a first resolution from the image signal converted

by said image sensing element and second signal processing for obtaining an image signal of a second resolution which is higher than the first resolution from the image signal,

5 wherein, when said second signal processing is to be executed, said signal processing device performs predetermined control in response to movement of said optical transparent member to a predetermined position, said predetermined control being not performed when
10 said first signal processing is to be executed.

21. An image sensing apparatus comprising:

 (A) an image sensing element that converts an optical image of an object passed through an optical
15 transparent member to an image signal; and

 (B) an image processing device that performs moving image signal processing for processing the image signal converted by said image sensing element as a
20 moving image signal and still image signal processing for processing the image signal as a still image signal,

 wherein, when said still image signal processing is to be executed, said signal processing device
25 applies predetermined limitation upon movement of said optical transparent member to a predetermined position,

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said predetermined limitation being not applied when
said moving image signal processing is to be executed.

22. The image sensing apparatus according to claim 21,
wherein said signal processing device does not apply
5 said predetermined limitation when the optical
transparent member does not move to the predetermined
position.

23. The image sensing apparatus according to claim 21,
10 wherein said signal processing device inhibits said
optical transparent member to move to said
predetermined position as said predetermined limitation.

24. The image sensing apparatus according to claim 21,
15 wherein said image sensing device includes said optical
transparent member.

25. The image sensing apparatus according to claim 21,
wherein said optical transparent member comprises a
lens.

20 26. The image sensing apparatus according to claim 21,
wherein said optical transparent member comprises an
optical filter.

27. The image sensing apparatus according to claim 21,
wherein a predetermined focal length state is set due
25 to the movement of said optical transparent member to
said predetermined position.

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28. The image sensing apparatus according to claim 21, wherein a predetermined focus position state is set due to the movement of said optical transparent member to said predetermined position.

5 29. An image sensing apparatus comprising:

(A) an image sensing element that converts an optical image of an object passed through an optical transparent member to an image signal; and

10 (B) an image processing device that performs first signal processing for obtaining an image signal of a first resolution from the image signal converted by said image sensing element and second signal processing for obtaining an image signal of a second
15 resolution which is higher than the first resolution from the image signal,

wherein, when said second signal processing is to be executed, said signal processing device applies predetermined limitation upon movement of said optical
20 transparent member to a predetermined position, said predetermined limitation being not applied when said first signal processing is to be executed.

30. An apparatus comprising:

25 (A) an image recording device that performs image recording of an optical image of an object passed

through an optical transparent member in a first resolution and in a second resolution which is higher than the first resolution; and

(B) a control device that performs predetermined control in response to movement of said optical transparent member to a predetermined position when said image recording in said second resolution is to be executed, said predetermined control being not performed when said image recording in said first resolution is to be executed.

31. An apparatus comprising:

(A) an image recording device that performs image recording of an optical image of an object passed through an optical transparent member in a first resolution and in a second resolution which is higher than the first resolution; and

(B) a control device for applying predetermined limitation upon movement of said optical transparent member to a predetermined position when said image recording in said second resolution is to be executed, said predetermined limitation being not applied when said image recording in said first resolution is to be executed.

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32. A control method of an image sensing apparatus comprising the steps of:

converting an optical image of an object passed through an optical transparent member to an image
5 signal; and

performing moving image signal processing for processing the image signal converted by said image sensing element as a moving image signal and still
10 image signal processing for processing the image signal as a still image signal,

wherein, when said still image signal processing is to be executed, predetermined control in response to movement of said optical transparent member to a predetermined position is performed, said predetermined
15 control being not performed when said moving image signal processing is to be executed.

33. A control method of an image sensing apparatus comprising the steps of:

20 converting an optical image of an object passed through an optical transparent member to an image signal; and

performing first signal processing for obtaining an image signal of a first resolution from the image
25 signal converted by said image sensing element and second signal processing for obtaining an image signal

of a second resolution which is higher than the first resolution from the image signal,

wherein, when said second signal processing is executed, predetermined control in response to movement of said optical transparent member to a predetermined position is performed, said predetermined control being not performed when said first signal processing is to be executed.

10 34. A control method of an image sensing apparatus comprising the steps of:

converting an optical image of an object passed through an optical transparent member to an image signal; and

15 performing moving image signal processing for processing the image signal converted by said image sensing element as a moving image signal and still image signal processing for processing the image signal as a still image signal,

20 wherein, when said still image signal processing is to be executed, predetermined limitation upon movement of said optical transparent member to a predetermined position is applied, said predetermined limitation being not applied when said moving image
25 signal processing is to be executed.

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35. A control method of an image sensing apparatus comprising the steps of:

converting an optical image of an object passed through an optical transparent member to an image
5 signal; and

performing first signal processing for obtaining an image signal of a first resolution from the image signal converted by said image sensing element and
10 second signal processing for obtaining an image signal of a second resolution which is higher than the first resolution from the image signal,

wherein, when said second signal processing is to be executed, predetermined limitation upon movement of said optical transparent member to a predetermined
15 position is applied, said predetermined limitation being not applied when said first signal processing is to be executed.

36. A control method of an image recording apparatus comprising the steps of:

20 performing image recording of an optical image of an object passed through an optical transparent member in a first resolution and in a second resolution which is higher than the first resolution; and

25 performing predetermined control in response to movement of said optical transparent member to a

predetermined position when said image recording in said second resolution is to be executed, said predetermined control being not performed in said image recording when said first resolution is to be executed.

- 5 37. A control method of an image recording apparatus comprising the steps of:

performing image recording of an optical image of an object passed through an optical transparent member in a first resolution and in a second resolution which
10 is higher than the first resolution; and

applying predetermined limitation upon movement of said optical transparent member to a predetermined position when said image recording in said second
15 resolution is to be executed, said predetermined limitation being not applied in said image recording when said first resolution is to be executed.

38. A method of designing an optical system, which is
20 attached to an image recording apparatus capable of recording a moving image and a still image of an optical image of an object passed through an optical transparent member, wherein optical property of the optical system is designed allowable for recording the
25 moving image whereas not allowable for recording the

still image upon movement of said optical transparent member to a predetermined position.

39. A method of designing an optical system, which is attached to an image recording apparatus capable of performing image recording of an optical image of an object passed through an optical transparent member in a first resolution and in a second resolution which is higher than the first resolution, wherein optical property of the optical system is designed allowable for performing the image recording in said first resolution and not allowable for performing the image recording in said second resolution upon movement of said optical transparent member to a predetermined position.

40. A computer program applied for image sensing apparatus including program codes of:

converting an optical image of an object passed through an optical transparent member to an image signal; and

performing moving image signal processing for processing the image signal converted by said image sensing element as a moving image signal and still image signal processing for processing the image signal as a still image signal,

wherein, when said still image signal processing is to be executed, predetermined control in response to

movement of said optical transparent member to a predetermined position is performed, said predetermined control being not performed when said moving image signal processing is to be executed.

- 5 41. A computer program applied for image sensing apparatus including program codes of:

converting an optical image of an object passed through an optical transparent member to an image signal; and

- 10 performing first signal processing for obtaining an image signal of a first resolution from the image signal converted by said image sensing element and second signal processing for obtaining an image signal of a second resolution which is higher than the first
15 resolution from the image signal,

- wherein, when said second signal processing is executed, predetermined control in response to movement of said optical transparent member to a predetermined position is performed, said predetermined control being
20 not performed when said first signal processing is to be executed.

42. A computer program applied for image sensing apparatus including program codes of:

- converting an optical image of an object passed
25 through an optical transparent member to an image signal; and

performing moving image signal processing for
processing the image signal converted by said image
sensing element as a moving image signal and still
image signal processing for processing the image signal
5 as a still image signal,

wherein, when said still image signal processing
is to be executed, predetermined limitation upon
movement of said optical transparent member to a
predetermined position is applied, said predetermined
10 limitation being not applied when said moving image
signal processing is to be executed.

43. A computer program applied for image sensing
apparatus including program codes of:

converting an optical image of an object passed
15 through an optical transparent member to an image
signal; and

performing first signal processing for obtaining
an image signal of a first resolution from the image
signal converted by said image sensing element and
20 second signal processing for obtaining an image signal
of a second resolution which is higher than the first
resolution from the image signal,

wherein, when said second signal processing is to
be executed, predetermined limitation upon movement of
25 said optical transparent member to a predetermined
position is applied, said predetermined limitation

being not applied when said first signal processing is to be executed.

44. A computer program applied for image recording apparatus including program codes of:

5 performing image recording of an optical image of an object passed through an optical transparent member in a first resolution and in a second resolution which is higher than the first resolution; and

10 performing predetermined control in response to movement of said optical transparent member to a predetermined position when said image recording in said second resolution is to be executed, said predetermined control being not performed in said image
15 recording when said first resolution is to be executed.

45. A computer program applied for image recording apparatus including program codes of:

performing image recording of an optical image of
20 an object passed through an optical transparent member in a first resolution and in a second resolution which is higher than the first resolution; and

applying predetermined limitation upon movement
25 of said optical transparent member to a predetermined position when said image recording in said second

resolution is to be executed, said predetermined
limitation being not applied in said image recording
when said first resolution is to be executed.

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